

## Contributors to this Issue

CHARLES W. CARTER, JR., A.B., Harvard, 1920; B.Sc., Oxford, 1923. American Telephone and Telegraph Company, Department of Development and Research, 1923-. Mr. Carter's work has had to do with the theory of electrical networks and with problems of telephone quality.

T. G. CASTNER, B.S. in Electrical Engineering, Drexel Institute, 1925. Bell Telephone Laboratories, 1926-. Mr. Castner's work has been concerned with studies of transmission quality and with the development of transmission testing apparatus and methods.

A. B. CLARK, B.E.E., University of Michigan, 1911. American Telephone and Telegraph Company, 1911-. Toll Transmission Development Engineer, 1928-. Mr. Clark's work has been largely concerned with toll telephone and telegraph systems.

KARL K. DARROW, B.S., University of Chicago, 1911; University of Paris, 1911-12; University of Berlin, 1912; Ph.D., University of Chicago, 1917. Western Electric Company, 1917-25; Bell Telephone Laboratories, 1925-. Dr. Darrow has been engaged largely in writing on various fields of physics and the allied sciences.

J. W. EMLING, B.S. in Electrical Engineering, University of Pennsylvania, 1925. American Telephone and Telegraph Company, Department of Development and Research, 1925-. Mr. Emling has been engaged in development work in connection with the transmission of exchange area circuits.

RONALD M. FOSTER, S.B., Harvard, 1917. American Telephone and Telegraph Company, Engineering Department, 1917-19; Department of Development and Research, 1919-. Mr. Foster has been working upon various mathematical problems connected with the theory of electrical networks.

B. W. KENDALL, S.B., Massachusetts Institute of Technology, 1906; Instructor in Physics at Massachusetts Institute of Technology, Barnard College, and Columbia University, 1906-1913. Engineering Department of the Western Electric Company, 1913; Bell Telephone Laboratories, 1925-. Mr. Kendall's early work was on repeaters in

connection with the transcontinental line; he has also been connected with carrier-current development since its inception. Since 1919 he has had charge of toll development engineering.

F. W. McKOWN, A.B., Williams College, 1914; B.S., Massachusetts Institute of Technology, 1916. Western Electric Company, 1916-1921. American Telephone and Telegraph Company, Department of Development and Research, 1921-. Mr. McKown's work has been largely concerned with transmission developments in connection with local exchange circuits.